Arkansas

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	2,850	518,670	37	Total R&D performance, 1998 (millions)	$283	$214,668	43
Doctoral engineers, 1999[1]	270	107,100	44	Industry R&D, 1998 (millions)	$118	$163,480	40
S&E doctorates awarded, 1999[1]	56	25,953	45	Academic R&D, 1998 (millions)	$111	$25,342	40
of which, in life sciences	54%	25%		of which, in life sciences	77%	57%	
in engineering	18%	21%		in engineering	10%	16%	
in physical sciences	16%	14%		in physical sciences	4%	9%	
S&E postdoctorates, 1998[1]				Public higher education current-fund			
in doctorate-granting institutions	103	39,494	38	expenditures, 1997 (millions)	$1,248	$125,236	34
S&E graduate students, 1998[1]				Number of SBIR awards, 1990-98	31	35,413	46
in doctorate-granting institutions	1,614	422,834	44	Patents issued to state residents, 1999	188	83,901	41
Population, 1999 (thousands)	2,551	276,580	34	Gross state product, 1998 (billions)	$62	$8,800	34
Civilian labor force, 1999 (thousands)	1,222	140,536	34	of which, agriculture	4%	1%	
				manufacturing, mining, construction	28%	22%	
Personal income per capita, 1999	$22,244	$28,542	47	transportation, communication, utilities	11%	9%	
				wholesale and retail trade	17%	16%	
Federal spending				finance, insurance, real estate	11%	19%	
Total expenditures, 1999 (millions)	$13,631	$1,508,933	34	services	16%	21%	
R&D obligations, 1998 (millions)	$97	$70,445	44	government	12%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	97,026	45,895	0	2,199	44,974	2,488	1,470	44
Department of Agriculture	26,191	13,730	0	9	12,452	0	0	19
Department of Commerce	388	58	0	0	0	330	0	50
Department of Defense	8,420	3,857	0	746	3,817	0	0	47
Department of Energy	50	0	0	0	50	0	0	50
Dept. of Health & Human Services	49,208	23,983	0	679	22,363	2,158	25	33
Department of the Interior	4,443	4,267	0	4	132	0	40	41
Department of Transportation	1,405	0	0	0	0	0	1,405	40
Environmental Protection Agency	381	0	0	0	381	0	0	44
National Aeronautics and Space Admin	1,881	0	0	685	1,196	0	0	47
National Science Foundation	4,659	0	0	76	4,583	0	0	48
State rank, total	44	31	na	48	41	42	44	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".